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BRUHAT BANGALORE MAHANAGARA PALIKE

YELHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION : BYATARAYANAPURA

Name of Work : Estimate for Improvements to Roads and drains and construction of culverts at Saraipalya colony and other area in ward o 06, Byatrayanpura Sub division

JOB CODE: 006-20-00163

Estimated Cost: Rs. 100.00 Lakhs

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" ದೃಢೀಕರಣ ಪತ್ರ "

ವಿಷಯ: ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ, ವಾರ್ಡ್ ನಂ. 06 ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಕೈಗೊಳ್ಳಲಾಗುತ್ತಿರುವ ಈ ಕೆಳಕಂಡ ಕಾಮಗಾರಿಗಳನ್ನು ನಿರ್ವಹಿಸುವ ಸ್ಥಳಗಳಲ್ಲಿ ಪರಿಶಿಷ್ಟ ಜಾತಿ ಮತ್ತು ಪರಿಶಿಷ್ಟ ಪಂಗಡದ ಜನಾಂಗದವರು ಹೆಚ್ಚಾಗಿ ವಾಸಿಸುತ್ತಿರುವ ಬಗ್ಗೆ ಜಂಟಿ ತಪಾಸಣೆ ಕೈಗೊಂಡು ದೃಢೀಕರಣ ನೀಡುವ ಬಗ್ಗೆ.

ಉಲ್ಲೇಖ:

1. ಸರ್ಕಾರಿ ಆದೇಶ ಸಂಖ್ಯೆ. ನಿ 648 ಎಂಎನ್‌ವೈ 2018, ಬೆಂಗಳೂರು ದಿನಾಂಕ: 31.05.2019
2. ವಿ.ಆ(ಯೋ)/ಪಿಆರ್/945/2019-20, ದಿ. 06.06.2019
3. ಪ್ರಧಾನ ಅಭಿಯಂತರರು, ಬಿಬಿಎಂಪಿ ರವರ ಆಂತರಿಕ ಕಛೇರಿ ಟಿಪ್ಪಣಿ ಸಂಖ್ಯೆ. ಪ್ರ.ಅ/ಪಿಆರ್/ 4940/19-20, ದಿ. 26.06.2019

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ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಉಲ್ಲೇಖ (1) ರಂತೆ ಘನ ಸರ್ಕಾರವು ಈ ಕೆಳಕಂಡ ಕಾಮಗಾರಿಗೆ ಅನುಮೋದನೆಯನ್ನು ನೀಡಿರುತ್ತದೆ.

Sl No	Name of Work	Est Cost in Lakhs	Job Code	Budjet Head
1	Improvements to Roads and drains and construction of culverts at Saraipalya colony and other area in ward o 06, Byatrayanpura Sub division	100.00	006-20-0000163	P-1878 18% Works (Bhagya jyothi Soour/ Neru Yojana and Genaral

ಮೇಲ್ಕಂಡಂತೆ ಕಾಮಗಾರಿಗೆ ಉಲ್ಲೇಖ (2) ಮತ್ತು (3)ರಲ್ಲಿ ತಿಳಿಸಿರುವ ಷರತ್ತುಗಳಂತೆ ಪರಿಶಿಷ್ಟ ಜಾತಿ ಮತ್ತು ಪರಿಶಿಷ್ಟ ಪಂಗಡದ ಜನಾಂಗದವರು ವಾಸಿಸುವ ಸ್ಥಳದ ಜಂಟಿ ಸ್ಥಳಪರಿಶೀಲನೆ ಕೈಗೊಳ್ಳಲಾಗಿ ಸಹಾಯಕ ಕಂದಾಯ ಅಧಿಕಾರಿಗಳ ಶಿಫಾರಸ್ಸಿನಂತೆ ಮೇಲ್ಕಂಡ ಕಾಮಗಾರಿ ಕೈಗೊಳ್ಳುವ ಪ್ರದೇಶದಲ್ಲಿ ಶೇ. 50ಕ್ಕು ಹೆಚ್ಚು ಪರಿಶಿಷ್ಟ ಜಾತಿ ಮತ್ತು ಪರಿಶಿಷ್ಟ ಪಂಗಡದ ಜನಾಂಗದವರು ವಾಸಿಸುತ್ತಿದ್ದು, ಸದರಿ ಪ್ರದೇಶಗಳಲ್ಲಿ ಮೂಲಭೂತ ಸೌಕರ್ಯಗಳನ್ನು ಒದಗಿಸಲು ಈ ಮೇಲ್ಕಂಡ ಅಭಿವೃದ್ಧಿ ಕಾಮಗಾರಿಗಳನ್ನು ಕೈಗೊಳ್ಳಬೇಕಾಗಿರುತ್ತದೆ ಎಂದು ಈ ಮೂಲಕ ದೃಢೀಕರಿಸಿದೆ.

16.10.2019

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ವಾರ್ಡ್ ನಂ. 06(ಥಣಿಸಂದ್ರ)

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಂದಾಯ ಅಧಿಕಾರಿ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಯಲಹಂಕ ವಲಯ

ವರದಿ:

ವಿಷಯ : Improvements to Roads and drains and construction of culverts at Saraipalya colony and other area in ward o 06, Byatrayanpura Sub ಜುಖುಠಟಿ ನ ಕಾಮಗಾರಿ ಅಂದಾಜನ್ನು ಅನುಮೋದನೆಗೆ ಸಲ್ಲಿಸುವ ಬಗ್ಗೆ.

ಕಾಮಗಾರಿ ಸಂಕೇತ : : 006-20-000163

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ಬೃಹತ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ, ಬ್ಯಾಟರಾಯನಪುರ ಉಪವಿಭಾದ, ವಾರ್ಡ್ ನಂ.06 (ಥಣಿಸಂದ್ರ)ದ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಬಿ.ಬಿ.ಎಂ.ಪಿ ಆಯವ್ಯಯದ 2019-20 ನೇ ಸಾಲಿನ ಶೇ 24.10% ಎಸ್.ಸಿ/ಎಸ್.ಟಿ ಕಲ್ಯಾಣ ಯೋಜನೆಗಳಡಿ ಪ.ಜಾ/ಪ.ಪಂ ಸಮುದಾಯದ ಜನರು ವಾಸಿಸುವ ಪ್ರಧೇಶಗಳಲ್ಲಿ ಮೂಲಭೂತ ಸೌಕರ್ಯಗಳನ್ನು ಒದಗಿಸಲು ಲೆಕ್ಕ ಶೀರ್ಷಿಕೆ ಪಿ-1878 ರ ಅಡಿಯಲ್ಲಿ ರೂ 100.00 ಲಕ್ಷಗಳಿಗೆ Improvements to Roads and drains and construction of culverts at Saraipalya colony and other area in ward o 06, Byatrayanpura Sub division ಕಾಮಗಾರಿಯು ಮಂಜುರಾಗಿದ್ದು, ಸದರಿ ಕಾಮಗಾರಿಗೆ ಜಾಬ್ ಸಂಖ್ಯೆ 006-20-00163 ರಲ್ಲಿ ಕಾಮಗಾರಿ ಸಂಕೇತ ಸಹ ದೊರಕಿರುತ್ತದೆ.

ಅದರಂತೆ ಸರಾಯಿಪಾಳ್ಯ ಕಾಲೋನಿಯಲ್ಲಿ ಇತ್ತೀಚಿಗೆ ಬಿ.ಡಬ್ಲ್ಯೂ.ಬಿ.ಎಸ್.ಎಸ್.ಬಿ ವತಿಯಿಂದ ಕಾವೇರಿ ಕುಡಿಯುವ ನೀರು ಮತ್ತು ಒಳಚರಂಡಿ ಪೈಪುಗಳನ್ನು ಅಳವಡಿಸಲು ರಸ್ತೆಗಳನ್ನು ಅಗೆದಿದ್ದು, ಸದರಿ ಕಾಲೋನಿಯ ಎಲ್ಲಾ ರಸ್ತೆಗಳು ಸಂಪೂರ್ಣವಾಗಿ ಹಾಳಗಿದ್ದು, ಸದರಿ ಕಾಲೀನಿಯಲ್ಲಿ ಸಮರ್ಪಕವಾದ ಚರಂಡಿಗಳು ಇರುವುದಿಲ್ಲ. ಅದರಂತೆ ಸ್ಥಳ ಪರಿಶೀಲನೆ ಮಾಡಿ ಈ ಕೆಳಕಂಡಂತೆ ಅಂದಾಜನ್ನು ಪಟ್ಟಿ ಯನ್ನು ಸ್ಥಳದ ಅವಶ್ಯಕತೆಗೆ ಅನುಗುಣವಾಗಿ ತಯಾರಿಸಲಾಗಿದೆ.

1. ಸಿಮೆಂಟ್ ಕಾಂಕ್ರೀಟ್ ಚರಂಡಿ ಮತ್ತು ಅಡಿಗಾಲುವೆ ನಿರ್ಮಿಸಲು ಮಣ್ಣು ಅಗೆತದ ಕೆಲಸ ಮಾಡುವುದು.
2. ಚರಂಡಿ ಮತ್ತು ಅಡಿಗಾಲುವೆಗೆ ಸಿಮೆಂಟ್ ಕಾಂಕ್ರಿಟ್ (1:5:10) ಮಿಶ್ರಣ ಬೆಡ್ ಹಾಕುವುದು.
3. ಅಡಿಗಾಲುವೆಗಳನ್ನು ಗ್ರಾನೈಟ್ ಸೈಜು ಕಲ್ಲು ಕಟ್ಟಡದಲ್ಲಿ ನಿರ್ಮಿಸುವುದು.
4. ಚರಂಡಿಗಳನ್ನು ಉಕ್ಕು ಮತ್ತು ಎಂ20 ಸಿಮೆಂಟ್ ಕಾಂಕ್ರೀಟ್‌ನಿಂದ ನಿರ್ಮಿಸುವುದು.
5. ಚರಂಡಿ ಹಾಗೂ ಅಡಿಗಾಲುವೆಗೆ ಆರ್.ಸಿ.ಸಿ ಎಂ20 ಕಾಂಕ್ರಿಟ್ ನಿಂದ ಪ್ರಿಕ್ಯಸ್ಟ್ ಕವರಂಗ್ ಮತ್ತು ಡಕ್ ಸ್ಲಾಬ್ ಅಳವಡಿವುದು ಹಾಗೂ ಇತರೆ ಅವಶ್ಯಕ ಅಂಶಗಳಿಗೆ ಅಂದಾಜಿನಲ್ಲಿ ಅವಕಾಶ ಕಲ್ಪಿಸಿಕೊಂಡಿರುತ್ತದೆ.
6. ಕಾಂಕ್ರೀಟ ರಸ್ತೆಗಳಿಗಾಗಿ ಎಂ 30 ಸಿಮೆಂಟ್ ಕಾಂಕ್ರೀಟ್ ಅಳವಡಿಸುವುದು.
7. ಕೊಳವೆ ಬಾವಿಗಳಿಂದ ಸರಬರಾಜು ಆಗುತ್ತಿರುವ ಕುಡಿಯುವ ನೀರಿನ ಪೈಪುಗಳು ಹಾಳಾದ ಕಾರಣ ಹೊಸದಾಗಿ ಪೈಪುಗಳನ್ನು ಅಳವಡಿಸುವುದು ಇತ್ಯಾದಿ.

ಅಂದಾಜನ್ನು 2018-19ನೇ ಸಾಲಿನ ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ ದರಪಟ್ಟಿಯನ್ನು ಅಳವಡಿಸಿಕೊಂಡು ರೂ. 100.00 ಲಕ್ಷಗಳಿಗೆ ತಯಾರಿಸಿದ್ದು, ಸದರಿ ಕಾಮಗಾರಿಗೆ 2019-20 ನೇ ಸಾಲಿನ ಶೇ 24.10% ಎಸ್.ಸಿ/ಎಸ್.ಟಿ ಕಲ್ಯಾಣ ಯೋಜನೆ ಲೆಕ್ಕ ಶೀರ್ಷಿಕೆ ಪಿ-1878 ರ ಅಡಿಯಲ್ಲಿ ಆಡಳಿತಾತ್ಮಕ ಅನುಮೋದನೆ ಹಾಗೂ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿಯನ್ನು ನೀಡಲು ಕೋರಲಾಗಿದೆ ಹಾಗೂ ಸದರಿ ಕಾಮಗಾರಿ ತುರ್ತಾಗಿ ಕೈಗೊಳ್ಳಬೇಕಾಗಿರುವದರಿಂದ ಮೇ//. ಕೆ.ಆರ್.ಐ.ಡಿ.ಎಲ್ ಸಂಸ್ಥೆ ಮುಖಾಂತರ ನಿರ್ವಹಿಸಲು ಅನುಮೋದನೆ ಕೋರಲಾಗಿದೆ.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ವಿಭಾಗ-ಪಿ, ನಂ.06(ಥಣಿಸಂದ್ರ)

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

(32)

Name of work : Improvements to Roads and drains and construction of culverts at Saraipalya colony and other area in ward o 06, Byatrayanpura Sub division

Estimated Cost : Rs 100.00 Lakhs						**Job No : 012-19-000017**		
Description of work	Unit	Measurements				Qty	Rate	Amount
		No	L	B	D			
KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 **P.No. 140/ Item No. 18.47 / PWD SR 2018-19**	cum							
Dismantling Existing fully damaged CC								
ROAD		1	170.00	5.10	0.20	173.40		
		1	115.00	5.30	0.20	121.90		
		1	70.00	5.20	0.20	72.80		
		2	38.00	4.00	0.20	60.80		
						428.90	952.94	408716.00
Basic rate	899.00							
Add AW 6%	53.94							
	952.94							
KSRRB 300-1. Earth work excavation by manual means in Ordinary Soil soil nvolving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be eveled neatly after breaking of clods omplete as per specifications complete s per specifications.MORTH chapter 3. No. 143/ It No 19.1/ PWD SR 2018-19	cum							
For drain								
Drain		2	170.00	1.00	1.00	340.00		
		1	112.00	1.00	1.00	112.00		
		1	40.00	1.00	1.00	40.00		
ROAD		1	170.00	5.10	0.25	216.75		
		1	112.00	5.30	0.25	148.40		
		1	70.00	5.20	0.25	91.00		
		2	38.00	4.00	0.25	76.00		
		8	6.00	2.00	1.00	96.00		
Culverts		1	185.00	0.60	0.60	66.60		
Desilting of Drain		2	110.00	0.60	0.60	79.20		
						1265.95	137.80	174448.00
Basic Rate	130.00							
add AW 6%	7.80							
	137.80							

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KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 20kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No. 2100 **Page No. 222 / It**	**cum**							583164 (31)
For Drain								
BED		2	170.00	0.90	0.15	45.90		
		1	115.00	0.90	0.15	15.53		
		1	33.50	0.90	0.15	4.52		
Road		1	170.00	5.10	0.15	130.05		
		1	115.00	5.30	0.15	91.43		
		1	70.00	5.20	0.15	54.60		
		2	38.00	4.00	0.15	45.60		
culvert		8	6.00	2.00	0.15	14.40		
						402.02	5421.90	2179726.00
Basic rate	5115.00							
Add AW 6%	306.90							
	5421.90							
KSRB 5.3-3 **Providing and constructing granite / trap / basalt size stone** masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 **age No. 25/ It No. 5.9/ PWD SR 2018-19**	Cum							
or Culverts		8X2	6.00	0.60	0.80	46.08		
						46.08	5811.98	267816.00
Basic Rate	5483.00							
Area Weightage @ 6%	328.98							
Total	5811.98							
KSRRB M 1200-15.2: Plain / Reinforced cement concrete M20 with OPC Cement @ 320kgs, with 20mm and down size graded granite metal coars aggreagates @0.69 cum and fine aggreagates @ 0.46 cum, with superplastiser@ 3lts confirming to IS9103 -1999 Reaffirmed -2008, in open foundation complete as per drawing and technical specifications case-II, with batching plant transist mixer and concrete MORTH specification No. 1500, 1700 & 2100,/P No. 222/ Item No. 27.27/ PWD SR 2018-19	cum							
Culverts coping		8	6.00	1.80	0.15	19.44		
						19.44	5148.42	100085.00

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Basic Rate	4857.00							
Area Weightage @ 6%	291.42							
Total	5148.42							
SRB 15.1.3: **Providing FLush pointing** o coursed stone masonry with cement nortar 1:3, 20 mm deep, after raking joints o depth of 20mm nicely lining, including ost of materials, labour, curing complete s per specifications. Page No. 115/ Item lo. 15.1/ PWD SR 2018-19	Sqm							
ulverts		8X2	6.00		0.60	43.20		
						43.20	149.46	6457.00
Basic Rate	**141.00**							
Area Weightage @ 6%	8.46							
Total	**149.46**							
roviding and laying plain/reinforced ement concrete for side drains using 20 nominal mix concrete with OPC at 00 kgs. with 20mm and down size granite etal coarse aggregates at 0.69 cum and ne aggregates at 0.43 cum machine ixed, well compacted for walls and ttom including centering, shuttering, st of materials, HOM of machinery, ring etc., complete excluding cost of eel as per MORTH specification No. 500, 1700, 2200.including cost of aterials, labour, HOM complete as per ecifications.-do- Wall & bottom ickness 15cm.	cum							
WD SR 2018-19 P.No 271 It No 37.59.2								
r Drain Bed								
		2	170.00	0.90	0.15	45.90		
		1	115.00	0.90	0.15	15.53		
		1	33.50	0.90	0.15	4.52		
ain wall		4	170.00	0.15	0.65	66.30		
		2	115.00	0.15	0.65	22.43		
		2	33.50	0.15	0.65	6.53		
						161.21	7070.20	1139752.00
sic rate	6670.00							
d AW 6%	400.20							
	7070.20							
SRRB M2200-6. **Providing T.M.T. steel inforcement for R.C.C. work** including raightening, cutting, bending, hooking, acing in position, lapping and/or welding herever required, tying with binding wire d anchoring to the adjoining members herever necessary complete as per sign (laps, hooks and wastage shall not measured and paid) cost of materials, bour, HOM complete as per ecification. MORTH Specification .1600 & 2200 -do- TMT Bars Fe 500 **WD SR 2018-19 P.No 229 It 28.8.2**	Tonne							
		0.066	161.21			**10.64**	72326.98	769525.00
55 Ton/Cum								

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Basic Rate	68233.00							
Area Weightage @ 6%	4093.98							
Total	72326.98							
Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)	sqm							
Side Drain		2	170.00	0.75		255.00		
		1	115.00	0.75		86.25		
		1	33.50	0.90		30.15		
Missing slabs		2	65.00	0.90		117.00		
						488.40	2337.00	1141391.00
Approved Data rate	**2337.00**							
Providing and fixing **RCC precast cover slab of 250mm** thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)	**sqm**							
For Culverts		8	6.00	1.50		72.00		
						72.00	5418.00	390096.00
Road work								
SRRB M600-6: cement concrete pavement, construction unreinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type as per clause 1051.2.2M20/M30 at 380/450 kg per cum, coarse and fine aggregate conforming to IS: 383, maximum size of coarse aggregate not exceeding 25mm, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including leveling the form work as per drawing,), spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved curing compound, finishing to lines and grade as per drawing complete as per SpecificationPage No. 176/ Item No.	cum							
Road		1	170.00	5.10	0.15	130.05		
		1	105.00	5.30	0.15	83.48		
		1	70.00	5.20	0.15	54.60		

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Basic Rate	4916.00	1	38.00	4.00	0.15	22.80		6578012
add aw @ 6%	294.96					**290.93**	5210.96	1515999.00
	5210.96							
Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift No. 171/ Item No. 22.7/ PWD SR 2018-19	**Sqm**							
Road		1	170.00	5.10		867.00		
		1	115.00	5.30		609.50		
		1	70.00	5.20		364.00		
		2	38.00	4.00		304.00		
						2144.50	72.08	154576.00
Basic Rate	68.00							
Area Weightage @ 6%	4.08							
Total	**72.08**							
Pipe line work								
Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 5, I.NO - 2.4, PWD SR-2018-19)	cum							
		3	145.00	0.60	0.90	234.90		
						234.90	475.94	111798.00
Basic Rate	449.00							
6% area weightage	26.94							
Total	**475.94**							
Providing and installing at site of work 90mm (0.662) **PVC Pipes** of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking of joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete.	**Rmtr**					435.00		
		3	145.00			**435.00**	202.91	88266.00
Basic Rate	197.00							
add aw @ 3%	5.91							
	202.91							

8448651

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... to Roads and drain ... other area in w...

26

15	KSRB 2.4 : **Refilling available earth around pipe lines,** cables in layers not layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. (P 7 it 2.11)							844865 (22)
		cum				234.90	134.62	31622.24
	Basic Rate	121.00						
	add aw @ 6%	7.26						
		128.26						
6	KSRRB M100-2. Loading and Unloading of stone boulders by manual means complete as per specification MORTH-100/chapter-1 Page No. 136/ Item No. 17.1/ PWD SR 2018-19					1265.85		93668=00
		Cum	Qty Vide Item No. 2			1546.98		
	Basic Rate	57.00				1546.98	73.99	~~114457.59~~
	Lead for 5km	12.80				1400.00		103583.00
		69.80						
	add aw @ 6%	4.19				8573941.24		8573941.24
		73.99						85838856.00
							Sub Total	~~8581716.00~~
	For 3% KRIDL Charges						257516.00	~~257451.00~~
	For 1% Labour Cess						85839.00	~~85817.00~~
	For 12% Applicable GST						107265.00	~~1070998.00~~
	Miscesallaneous Charges	L/S					1524.00	4018.00
							Grand Total	10000000.00
	(Rupees one hundred lakhs only)							

TIFICATE

Certified that The work spot has been inspected by me and the work is necessary & site condition
Certified that the estimate is based on PW,P&IWTD Bangalore Circle SR of 2018-19
Certified that Adequate & necessary provisions have made in the estimate.
Certified that the above area comes under BBMP limit
This Work is not included in any other work taken up

Sub Total = 8573941.24

Asst Engineer
Ward-06

Assistant Executive Engineer
Byatarayanpura Sub Division
B.B.M.P

Excecutive Engineer
Byatarayanpura Division
B.B.M.P

ADMINISTRATIVE APPROVAL

Accorded For Rs. 100.00 Lakhs only

Head of A/c P1878

Div. Ref. No. 91 Date 29-11-19

29/01
AE

EE(BTP)

...cally sanctioned for Rs. 1,00,00,000

Rs in Words ONE CRORE ONLY

Under P1878

Job Code No. 006-20-000163

Registered as SE(Y)/TS/ 20 /19-20 ...

to conditions contained in enclosed memo

No. 20 /19-20 Dated: 07/01/2020

07/01/2020

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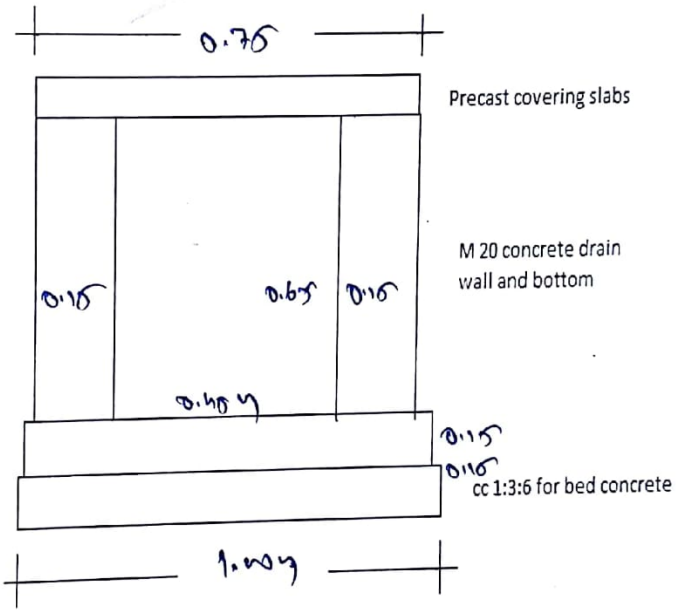
Name of work : Improvements to Roads and drains and construction of culverts at S Saraipalya colony and other area in ward o 06, Byatrayanpura Sub division

Estimated cost : Rs 100.00 lakhs P code : 1878 Job No : 006-20-000164



Cross section of Drain

Assistant Engineer
Ward No:06

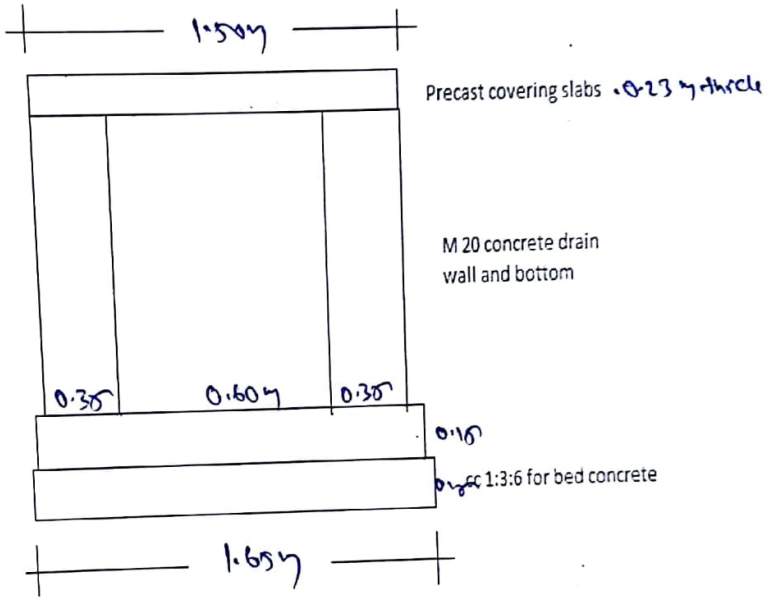
Assistant Executive Engineer
Byatarayanpura sub division

19

23

Name of work : Improvements to Roads and drains and construction of culverts at S Saraipalya colony and other area in ward o 06, Byatrayanpura Sub division

Estimated cost : Rs 100.00 lakhs P code : 1878 Job No : 006-20-000164



Cross section of ~~Drain~~ culvert

Assistant Engineer
Ward No 06

Assistant Executive Engineer
Byatarayanpura sub division

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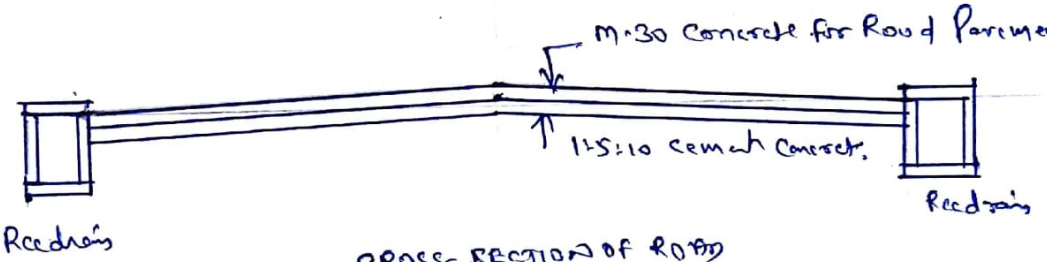
Name of work :- Improvements to Roads and drains and Construction of culverts at Sarakipalya colony and other areas in Ward No. 06. Byatarayanapura Sub-Division



CROSS-SECTION OF ROAD

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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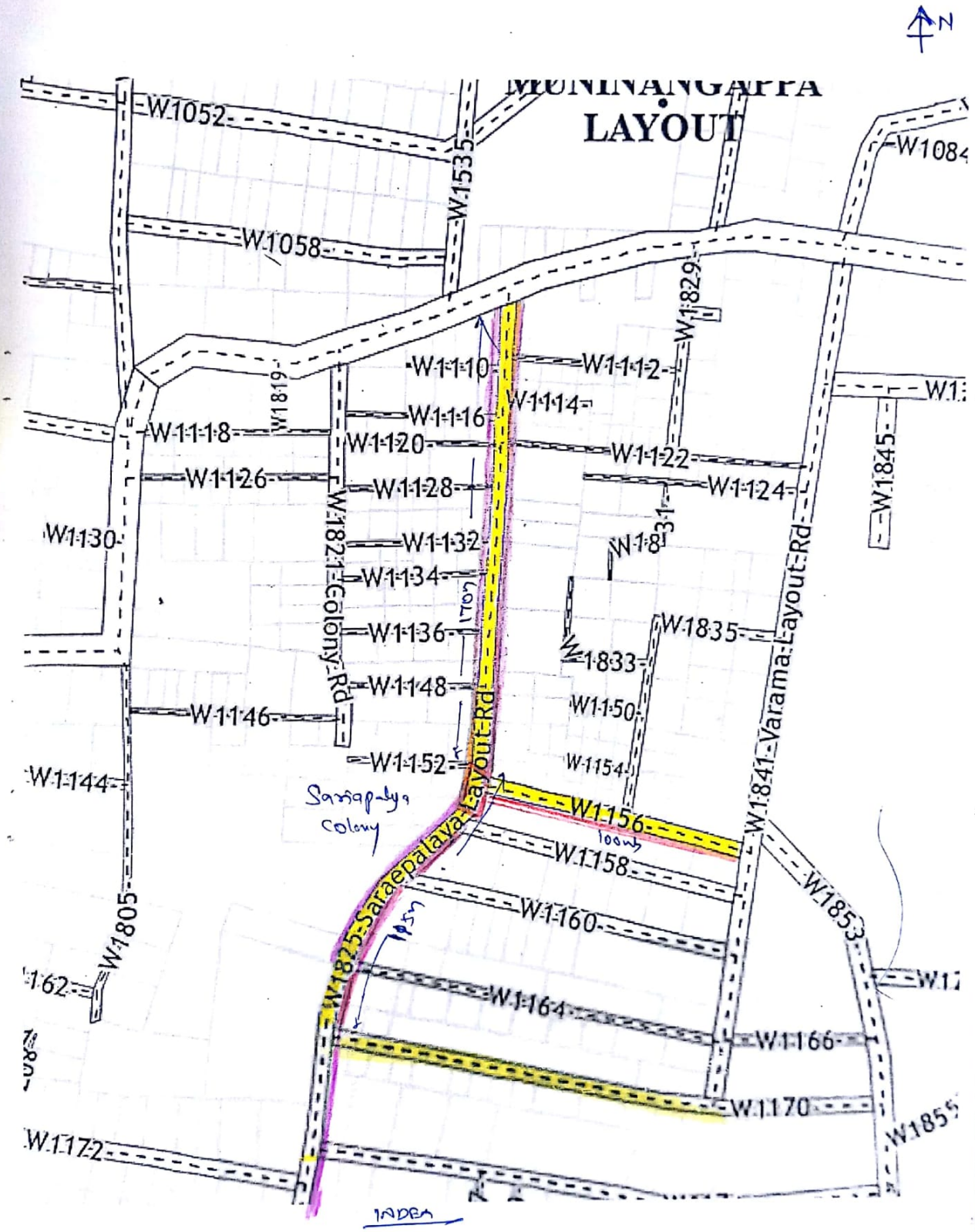
Name of work : Improvements to road and drian and construction of culverts at Saraipalya colony and other area in Ward No 06, Byatarayanpura Sub Division

21

Estimated cost : Rs 100.00 Lakhs P-code-1878 Job No : 006-20-000163



Assistant Engineer
Ward No 06

Assistant Executive Engineer
Byatarayanapura sub Division, BBMP

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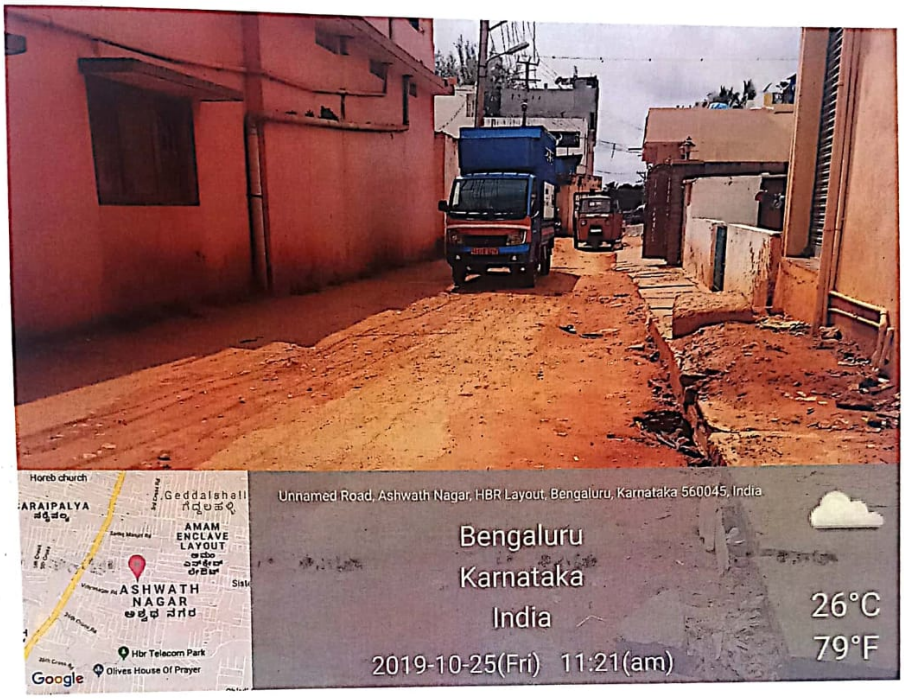
Improvements to Roads and Drains and Construction of Culverts at Saraipalaya Colony and other area in ward No 6 Byatarayanapura Sub division

15



: # 455,

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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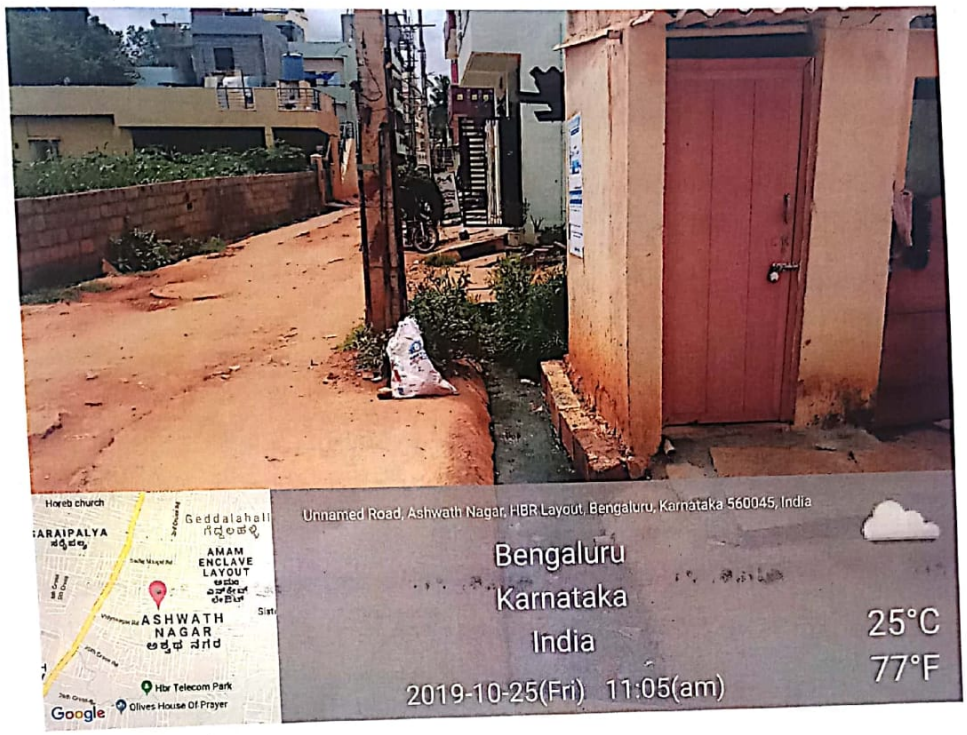
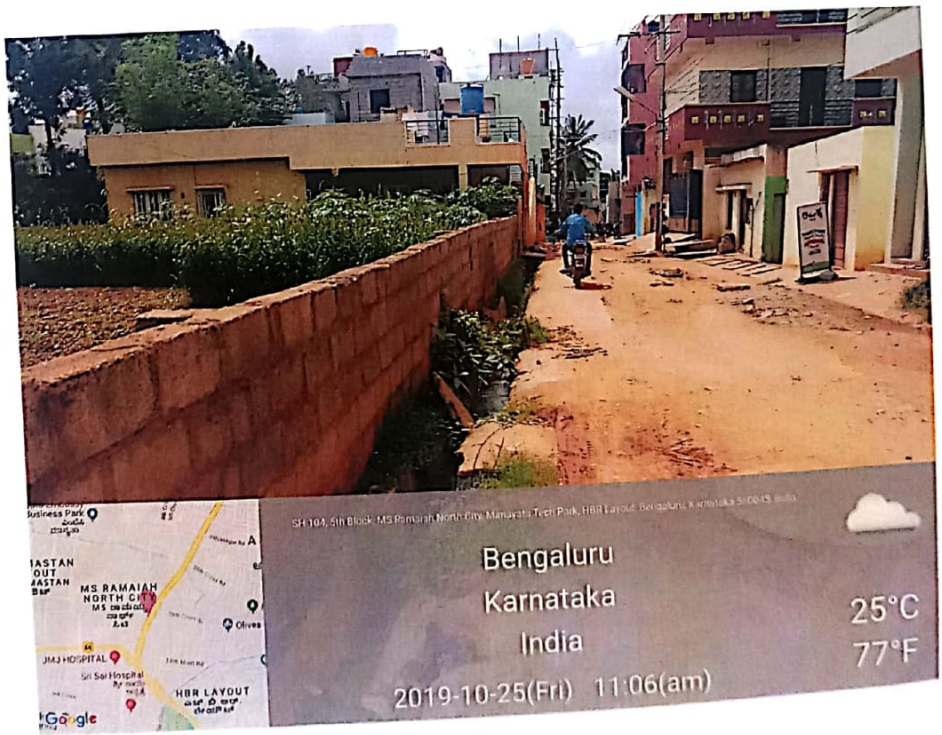
Improvements to Roads and Drains and Construction of Culverts at Saraipalaya Colony and other area in ward No 6 Byatarayanapura Sub division

16





455,

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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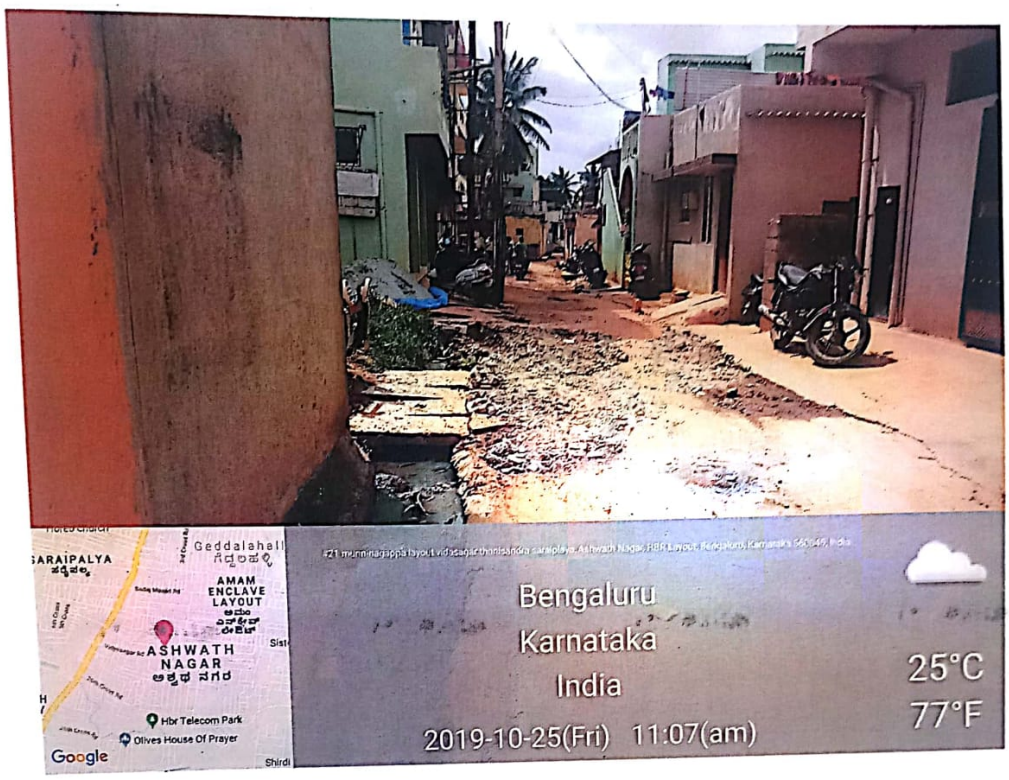

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯ...
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Improvements to Roads and Drains and Construction of Culverts at Saraipalaya Colony and other area in ward No 6 Byatarayanapura Sub division

18

006-20-000163.

EIC.
PR/55774

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

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(19)

BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE, BANGALORE

No: BBMP/EE/BTP/LOA/ 191 /2019-20

Executive Engineer,
Byatarayanapura Division,
No. 2152/20, Defence Colony,
Sahakara Nagara,Bangalore-92
Tel:080 22975937

Date:

Letter of Acceptance

To,

Executive Engineer,
Karnataka Rural Infrastructure development Ltd,
#280, 59th Cross road,
17th 'C' Main road,
3rd 'Y' Block, Rajajinagara,
Bangalore-560 010.

Dear Sir,

This is to notify you that for execution **Improvements to Roads and Drains and Construction of Culverts at Saraipalaya Colony and other area in ward No 6 Byatarayanapura Sub division** for the contract price of Rs. **89,16,898.89/-** (Rupees Eighty Nine Lakhs Sixteen Thousand Eight Hundred Ninety Eight and paise Eighty Nine only) **(Excluding GST) (Including KRIDL Charges)** as corrected and modified in accordance with the Instructions to Tenderers is hereby accepted by BBMP.

You are hereby requested to furnish Agreement within 10 days of the receipt of this letter of acceptance valid up to 30 days from the date of expiry of defects Liability Period and sign the contract, failing which action as stated in Para 24.3 of I T T will be taken.

Yours faithfully,

9/01

Executive Engineer
Byatarayanapura Division
Bruhat Bengaluru Mahanagara Palike

9/01

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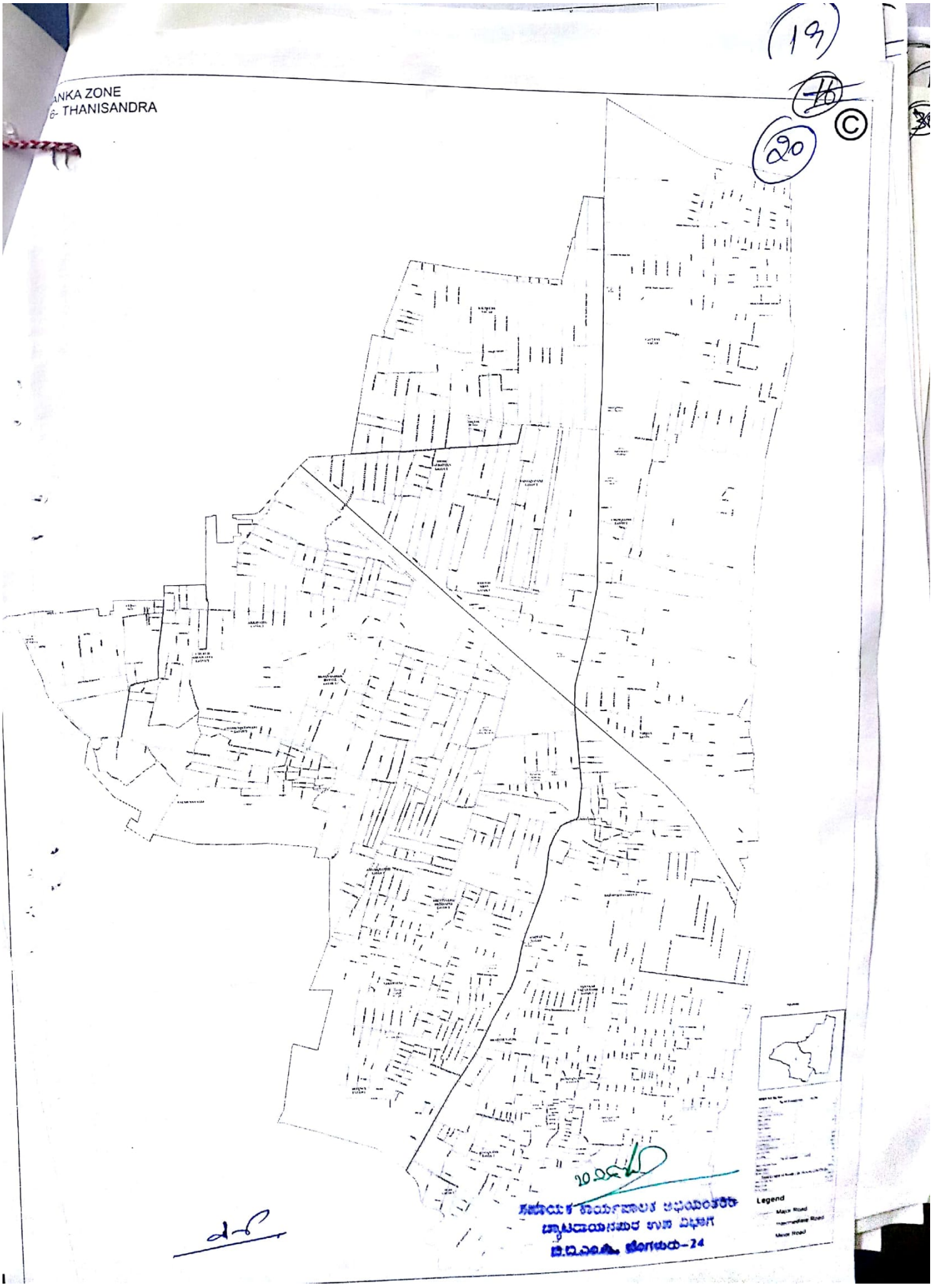
ANKA ZONE
- THANISANDRA



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©

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೃಹದಾಯತನದ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24

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BRUHAT BANGALORE MAHANAGARA PALIKE

Data Rate As Per 2018-19

Kengeri Division

Rate Analysis For 250mm Thick Precast Slab

Sl. No.	Description of Item	Unit / Rate	Nos	Dimensions L in m	B in m	D in m	Quantity	Rate in Rs.	Total Amount in Rs
1	KSRB 4.2.7 : Providing and laying in position reinforced cement concrete of design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal course aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, lintles, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6								
		Cum							
	(Page No 14, I.No.4.12 of KPWD S.R 2018-19).								
	Rate Analysis								
	Basic Rate in Rs.			6045.00					
	Add 6% Area Weigtage			362.70					
	Total Rate in Rs.			6407.70					
			1	1.80	0.60	0.250	0.27		
							0.27	6407.70	1730.08
2	KSRB 4-6.3 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200 mm including cost of all materials, labour complete as per Specification. Specification No. KBS 4.6.2								
		Sqm							
	(Page No 16,I.No.4.30 of KPWD S.R 2018-19).								
	Rate Analysis								
	Basic Rate in Rs.			440.00					
	Add 6% Area Weigtage			26.40					
	Total Rate in Rs.			466.40					
			1	1.80	0.60		1.08		
							1.08	466.40	503.71
3	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2								
		Sqm							
	(Page No 16,I.No.4.31 of KPWD S.R 2018-19).								
	Rate Analysis								
	Basic Rate in Rs.			358.00					
	Add 6% Area Weigtage			21.48					
	Total Rate in Rs.			379.48					
			2	1.80	0.25		0.90		
			2	0.60	0.25		0.30		
							1.20	379.48	455.38

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	Providing & laying TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications, Specification No: KDS 4.6.3 TMT bars Fe 500							
	Name							
	Dge No 15.1 No 4.46.2 of KPWD S R 2018-19)							
	Rate Analysis							
	Base Rate in Rs.			70956.00				
	10.0 % Area Weightage			4267.96				
	Total Rate in Rs.		1	75223.96				
	Steel 10mm dia Main rod @150mm c/c	1.58kg/cum	2	5.00	2.20		22.00	
	Tieing Hook 10mm dia - 2 Nos	0.02kg/cum	1	2.00	0.30		0.60	
							22.60	
							0.04	
	Steel 8mm dia - Main rod @150mm c/c	0.40kg/cum	2	13.00	0.60		15.60	
							0.01	
							0.04	75223.96	3155.49
5	Refixing of Precast slabs of drains and painting in C.M (1:3)							
		Sqm						
	Rate Analysis							
a	Removing & Refixing stone slabs of drains			105.00				
b	Removing B.S. slab of Drain and stacking.			99.00				
	Arrived Rate (a-b)			6.00				
	Add 6% Area Weightage			0.36				
	Total Rate in Rs.			6.36				
			1	1.80	0.60		1.08		
							1.08	6.36	6.87
	Total								5851.53

Therefore cost for Per Sqm = Total/(1.8*0.6) = 5851.53 / (1.8*0.6) = 5418.08

Say 5418.00 - 250 mm.

Asst Engineer
Ward No.40

Asst Executive Engineer
Herohalli Sub-Division

Executive Engineer
Kengeri Division

DATA RATE HERE BY APPROVED"

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BRUHAT BANGALORE MAHANAGARA PALIKE

Data Rate As Per 2018-19

Kengeri Division

Rate Analysis For 10CM Thick Precast Slab

Sl No.	Description of Item	Unit / Rate	Nos	Dimensions L in m	B in m	D in m	Quantity	Rate in Rs.	Total Amount in Rs
1	KSRB 4.2.7 : Providing and laying in position reinforced cement concrete of design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates @ 0.47cum, with superplastiaiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, lintles, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6								
		Cum							
	(Page No 14, I.No.4.12 of KPWD S R 2018-19).								
	Rate Analysis								
	Basic Rate in Rs.			6045.00					
	Add 6% Area Weigtage			362.70					
	Total Rate in Rs.			6407.70					
			1	2.00	0.60	0.100	0.12		
							0.12	6407.70	768.92
2	Refixing of Precast slabs of drains and pointing in C.M (1:3)								
		Sqm							
	Rate Analysis								
a	Removing & Refixing stone slabs of drains and pointing in C.M (1:3) (Page No 27., I.No.5.33 of KPWD S.R 2018-19).			105.00					
b	Removing B.S. slab of Drain and stacking.			99.00					
	Arrived Rate (a-b)			6.00					
	Add 6% Area Weigtage			0.36					
	Total Rate in Rs.			6.36					
			1	2.00	0.60		1.20		
							1.20	6.36	7.63
3	KSRB 4-6.3 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200 mm including cost of all materials, labour complete as per Specification. Specification No. KBS 4.6.2								
		Sqm							
	(Page No 16,I.No 4.30 of KPWD S R 2018-19)								
	Rate Analysis								
	Basic Rate in Rs.			440.00					
	Add 6% Area Weigtage			26.40					
	Total Rate in Rs.			466.40					
	Deduct 25% of Verticle Strating			116.60					
	Grand Total			349.80					
			1	2.00	0.60		1.20		
							1.20	349.80	419.76
4	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification								
		Sqm							
	(Page No 16,I.No.4.31 of KPWD S.R 2018-19)								

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	Rate Analysis								
	Basic Rate in Rs.			358.00					
	Add 6% Area Weigtage			21.48					
	Total Rate in Rs.			379.48					
	Deduct 25% of Verticle Strating			94.87					
	Grand Total			284.61					
			2	2.00	0.10		0.40		
			2	0.60	0.10		0.12		
							0.52	284.61	148.00
5	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification No. KBS 4.6.3 TMT bars Fe 500								
		Tonne							
	(Page No 18,I.No.4.46.2 of KPWD S.R 2018-19).								
	Rate Analysis								
	Basic Rate in Rs.			70966.00					
	Add 6% Area Weigtage			4257.96					
	Total Rate In Rs.			75223.96					
	12mm dia@150mm c/c	0.89kg/cum	7	2.00			14.00		
	10mm dia@150mm c/c	0.62kg/cum	15	0.60			9.00		
							0.01		
							0.01		
							0.02	75223.96	1357.04
6	0282 P.V.C pipes unplasticised 32mm								
		Per Rmtr							
	(Page No XXVI,Sl.No.674 of KPWD S.R 2018-19).								
	Rate Analysis								
	Basic Rate in Rs.			55.08					
	Total Rate in Rs.			55.08					
	pipe for weep hole		8	0.10			0.80		
							0.80	55.08	44.06
7	KSRB15-6 : Providing floating coat of cement to plastering and finishing smooth, including cost of materials, labour, curing complete as per specifications.								
		Sqm							
	(Page No 118,I.No.15.32 of KPWD S.R 2018-19).								
	Rate Analysis			19.00					
	Basic Rate in Rs.			1.14					
	Add 6% Area Weigtage			20.14					
	Total Rate In Rs.								
			2	2.00	0.60		2.40		
			2	2.00		0.10	0.40		
			2	0.60		0.10	0.12		
							2.92	20.14	58.81
				Total					2804.23

Therefore cost for Per Sqm= Total/(2*0.6) = 2804.23 / (2.0*0.6) = 2336.86

Say 2337.00 – 100 mm

Asst Engineer
Ward No.40

Asst Executive Engineer
Herohalli Sub-Division

Executive Engineer
Kengeri Division

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